



## HIV ADVANCED (YEAR 2) PHARMACY RESIDENCY

### RESEARCH ELECTIVE ROTATION

#### OVERVIEW:

The research elective rotation is intended to provide an opportunity for the resident to acquire additional research experience in an area of interest. The resident will have an opportunity to participate in various aspects of the research process, as determined by the preceptor.

The rotation may be completed at UHN, MUHC, or other sites according to resident interest and preceptor availability.

#### PRECEPTOR:

A preceptor will be identified by either the resident, coordinators, members of the RAC, or others with expertise in the area of interest. The preceptor may be a pharmacist or other health-care practitioner with experience in conducting HIV-related research.

#### DURATION:

4 weeks

#### OUTCOMES:

By the end of this rotation, the resident will be able to:

- Demonstrate understanding of the principles of the Tri-Council Policy Statement (TCPS 2) and the Denver and Meaningful Involvement of People Living with HIV (MIPA) principles in order to understand and support best practices for ethical research conduct in people living with HIV (PLWH).
- Demonstrate a deeper understanding of various aspects of the research process and research methodology as applicable.
- Gain increased awareness of gaps in knowledge and potential research ideas in a specific therapeutic area and/or within a specific subpopulation of people living with or affected by HIV.

#### OBJECTIVES:

The specific objectives for this rotation will be determined by the rotation preceptor before the start of the rotation. The specific objectives will depend on the research project the resident will be working on and the phase of the project. The resident should also determine personal learning objectives for this rotation and review these with the preceptor at the start of the rotation.

The specific objectives may include, but are not limited to:

- Conducting a systematic literature search of the research problem and critically reviewing

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existing studies.

- Posing clinically and scientifically relevant, appropriately constructed research objectives.
- Drafting a hypothesis statement related to a selected research question.
- Preparing a study proposal outline.
- Preparing a research protocol including background, rationale, study hypothesis, goals, study design, primary and secondary endpoints, inclusion and exclusion criteria, sample size calculation, statistical analysis plan, time line, budget, data collection form(s), informed consent form, appendices, etc.
- Participating in a community advisory board or stakeholder session.
- Preparing submission documents required for approval of a project involving human subjects and/or animal experimentation.
- Preparing a grant submission for a local, provincial, or national funding agency or a private funder.
- Recruiting participants and obtaining informed consent.
- Data collection (database or subject interviews).
- Maintaining and managing data in spreadsheet programs such as LOTUS 1-2-3, Excel, or Access.
- Utilizing appropriate statistical tests/tools/programs to scientifically analyze and interpret research results
- Interacting effectively with team members, study participants, research ethics boards, funding agencies, and other stakeholders.
- Preparing a one-page outline of research findings including an introduction, background, methods, results, discussion, and conclusions, as well as a table providing results and statistical tests.
- Preparing and giving a formal presentation of research results collected during the rotation.
- Preparing a poster for presentation at an external professional meeting or conference.
- Preparing a manuscript of the study in a format suitable for publication in a peer-reviewed journal.

### **RESIDENT ASSESSMENT:**

The resident will be assessed in the following manner:

- Preparation of a summary (maximum 5 pages) of research activities completed during the rotation. This summary should also include a description of how their work contributed to the overall study process, as well as a brief overview of the study itself (e.g., concise background, rationale, objectives, methodology etc) and how findings are expected to impact knowledge of the area, influence practice or patient outcomes, etc. This summary should be submitted by the end of the rotation to the preceptor and residency coordinators.
- Demonstration of research and project management knowledge and skills as per the Research Elective Rotation Assessment Form (completed at midpoint and end of rotation by the preceptor and by the resident as self-assessment).



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